JACKSON ENVIRONMENTAL, LLC

- Environmental and Soil Consultants -

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October 3, 2022

Mr. Maciej Konferowicz
175 West Main Street LLC
29 Angelas Way
Burlington, CT 06013

Re: Soils and Wetlands Delineation Report - *Revised*
235 Wethersfield Road, Berlin, CT
JE Project No. 22-17

Dear Mr. Konferowicz:

A delineation of the wetlands boundary on a parcel of land identified as Lot 16-4, 235 Wethersfield Road, Berlin, CT was conducted on August 25, 2022 by William Jackson. The subject property was shown on the December 6, 1994 Subdivision Plan, Wether Run Subdivision, Property owned by Mary Kulesza, Lot 16, Block 127, Wethersfield Road, Berlin, Connecticut (Scale 1"=40'). The Subdivision Plan was prepared by Roderick D. Hewitt, P.E., L.S.

Published Soil Map Units

The Web Soil Survey[1] identifies the following map units on the subject parcel:

Cheshire-Holyoke complex, 3 to 15 percent slopes, very rocky (77C)

According to the Web Soil Survey, a *complex* consists of two or more soils that they cannot be shown separately on the maps. The Cheshire and Holyoke soil series are described as well-drained loamy soils formed within glacial-till parent materials derived from basalt rock, red sandstones, conglomerates and shale. The soil series are nearly level to very steep soils on bedrock-controlled ridges and hills. The Cheshire soils are typically deep while the Holyoke series has shallow depths to underlying rock.

Ludlow silt loam, 3 to 8 percent slopes (40B)

The U.S. Department of Agriculture, Natural Resources Conservation Service describes the Ludlow series as moderately-well-drained soils formed in red loamy glacial-till. They are

[1] The Web Soil Survey. USDA, Natural Resources Conservation Service. http://websoilsurvey.nrcs.usda.gov

moderately deep to a dense 'hardpan' C-horizon. They are nearly level to strongly sloping soils on till plains, hills, and drumlins.[2]

Wilbraham silt loam, 0 to 3 percent slopes (5)

The U.S. Department of Agriculture, Natural Resources Conservation Service describes the Wilbraham series as poorly-drained soils formed in red loamy glacial-till. They are moderately deep to a dense 'hardpan' C-horizon. They are nearly level to gently sloping soils in drainageways and depressions of hills and drumlins.[3]

Recognized Soil Map Units

In addition to the above Published Soil Map Units, the following additional map units were identified within the project area:

Udorthents-Smoothed, 0 to 8 percent slopes (308)

The Udorthents soils mapping unit typically consists of well-drained to moderately-well-drained soils that have been altered by cutting, filling, or grading. Udorthents either have had two-feet or more of the upper part of the original soil removed or have more than two-feet of fill material added over the original soil. In this case, fill materials were apparently placed and graded on the subject property in the distant past.

Aquents, 0 to 8 percent slopes (308w)

This soil map unit consists of poorly-drained and very-poorly-drained, disturbed land areas. They are most often found on landscapes which have been subject to prior filling and/or excavation activities. In general, this soil map unit occurs where two or more feet of the original soil surface has been filled over, graded or excavated. 'Aquents' are characterized by a seasonal to prolonged high ground water table and either support or are capable of supporting wetland vegetation. The wetlands area was previously re-graded.

Field Notes

Wetland boundary flags "WL-A-1" through "WL-A-6" were placed in northeastern section of the property in an arc from the northern to the eastern property boundaries. The wetland boundary flags are shown on the Re-Subdivision Plan for 175 West Main Street LLC, Lot 16 Block 127 Map 11-1, 235 Wethersfield Road, Berlin, Connecticut prepared in October 2022 by JL Surveying, Berlin, Conn. (Scale: 1"=20').

[2] https://soilseries.sc.egov.usda.gov/OSD_Docs/L/LUDLOW.html

[3] https://soilseries.sc.egov.usda.gov/OSD_Docs/W/WILBRAHAM.html

The wetlands delineated were comprised of poorly-drained Aquents. The wetlands soils consisted of sandy-loam textured granular fill materials over silt loam. The silt loam exhibited redoximorphic features (i.e., 'mottles") indicative of an aquic moisture regime.

Wetland boundary flags WL-A-1 through WL-A-4 placed with a lawn area that has been maintained in the vicinity of the existing residence. Flags A-5 and A-6 were placed within a wooded area adjacent to the eastern property boundary The wooded area along the eastern property boundary is part of an existing conservation easement shown on the October 2022 Re-Subdivision Plan.

The soils immediately up-slope from the wetland boundary were described as loamy Udorthents. Apparent shallow depths to rock, (i.e., less than 24-inches), were encountered in the uplands to the west of the wetland boundary.

The Re-Subdivision Plan shows a location for a proposed residence in the vicinity of the southeastern property corner. The proposed residence was located outside (up-slope) from the 50-foot-wide offset for the regulated Upland Review Area identified in the May 24, 2012 Town of Berlin Inland Wetlands and Water Courses Regulations.

The land use within area of wetlands identified will not likely change as a result of a proposed residential development. The wetland area will likely continue to be maintained as residential open space bordering a wooded conservation easement.

Please contact me at (860) 213-3152 with any questions or comments regarding this project.

Sincerely,

JACKSON ENVIRONMENTAL, LLC

William A. Jackson, R.S., L.E.P.
Registered Soil Scientist

cc: Andrzej Stachowiak, P.E.